

## **INFORMATION SHEET**

ORDER NO.  
CITY OF RIO VISTA  
RIO VISTA LANDFILL  
SOLANO COUNTY

The 20-acre site is on Airport Road approximately one mile north of Rio Vista. The site includes the 12-acre landfill, associated access roads, monitoring wells, drainage facilities, and two storm water collection ponds

### **Historical Operations**

The landfill operated from the mid-1940s through 1992 accepting primarily household waste. Approximately 4,000 tons of waste per year was discharged to the landfill. The north and west areas of the landfill were filled first by excavating and filling shallow pits. After filling a pit, waste continued to be discharged to about 10 feet above surrounding grade and was then covered with soil obtained from excavating the next pit. The southern and northeastern portions of the site were subsequently filled by the area fill method. Cover soil was obtained from borrow areas which are now the storm water ponds at the site.

### **Groundwater**

Since the direction of groundwater flow would be westerly if it were dominated by the Sacramento River, the northerly gradient direction appears to be the product of influences, including the Sacramento River to the south, Sacramento-San Joaquin Delta to the northwest, and hills to the south. Groundwater elevations at the site have historically ranged from about 0 to 2.8 feet MSL with an average seasonal variation of about +/- 0.75 feet.

Current groundwater impacts at the site include total dissolved solids (TDS), chloride, sulfate and alkalinity. In March 2005, for example, TDS was detected at 1,200 mg/L in MW-5 down gradient of the landfill, compared to 870 mg/L in upgradient well MW-3 and 620 mg/L in upgradient MW-4. The average TDS concentration in both background wells combined is about 800 mg/L. The secondary drinking water standard for TDS is 500 mg/L. No volatile organic compounds have been detected at the site in recent years, although low to trace concentrations of dichlorodifluoromethane (Freon 12) have been previously sporadically detected at the site.

### **Landfill Cover**

Although constructed in 2001, the landfill cover was not approved as complete until 2002 due to the need for repair of significant erosion damage that occurred during the 2001-2002 wet season. The cover was required under Title 27 regulations and was also viewed as a corrective action measure to help prevent further impacts to groundwater by reducing storm water infiltration into wastes.

### **Drainage**

Surface drainage in the site area is toward the Sacramento River.